

## CLAIMS

1. A method of manufacturing a composite panel comprising the steps of:
  - forming a first panel having a planar center portion and a first peripheral lip;
  - fabricating a second panel having a plurality of corrugations and a second peripheral lip;
  - applying an adhesive to at least said corrugations of said second panel; and
  - securing said first panel to said second panel with said peripheral lips in proximity.
2. The method of manufacturing a composite panel of Claim 1 further including the step of applying adhesive to said peripheral lip of said second panel.
3. The method of manufacturing a composite panel of Claim 1 wherein said first panel is formed by thermoforming.
4. The method of manufacturing a composite panel of Claim 1 wherein said second panel is fabricated by laying up fibrous material and coating said material with a binder.

5. The method of manufacturing a composite panel of Claim 1 further including the step of placing said composite panel over a pickup truck bed.

6. The method of manufacturing a composite panel of Claim 1 wherein said first panel is formed of thermoformable material.

7. A method of manufacturing a composite panel comprising the steps of:

forming a first panel having a planar center portion and a first peripheral lip;

fabricating a second panel having a plurality of corrugations and a second peripheral lip;

applying an adhesive to said corrugations and said peripheral lip of said first panel; and

securing said first panel to said second panel.

8. The method of manufacturing a composite panel of Claim 7 wherein said first panel is formed by thermoforming.

9. The method of manufacturing a composite panel of Claim 7 wherein said second panel is fabricated by laying up fibrous material and coating said material with a binder.

10. The method of manufacturing a composite panel of Claim 7 wherein said first panel is formed of thermoformable material.

11. The method of manufacturing a composite panel of Claim 7 wherein said second panel includes fiberglass.

12. The method of manufacturing a composite panel of Claim 7 further including the step of installing a U-shaped channel on said peripheral lips.

13. The method of manufacturing a composite panel of Claim 7 wherein said first panel is high density polyethylene.

14. A composite panel for use on a motor vehicle comprising, in contrast,

a first panel having a planar center region and a first peripheral lip;

a second panel having a plurality of parallel corrugations and a second peripheral lip;

adhesive on said corrugations and lips for securing said panels together; and

a U-shaped channel engaging a portion of said peripheral lips.

15. The composite panel for use on a motor vehicle of Claim 14 wherein said first panel is thermoformed high density polyethylene.

16. The composite panel for use on a motor vehicle of Claim 14 wherein said second panel is laid up fiberglass and a resin binder.

17. The composite panel for use on a motor vehicle of Claim 14 wherein said U-shaped channel is an elastomer.

18. The composite panel for use on a motor vehicle of Claim 14 wherein said panel is utilized as a tonneau cover on a truck.